

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,227,014 B2
APPLICATION NO. : 09/923515
DATED : June 5, 2007
INVENTOR(S) : Rosanne M. Crooke and Mark J. Graham

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page:

Item [56], References Cited, OTHER PUBLICATIONS, "Frank" reference, please delete "residues" and insert therefor --resides--;

"Frank" reference, please delete "chomosome" and insert therefor --chromosome--;

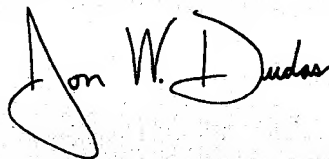
Item [74], Attorney, Agent, of Firm, please insert --; Isis Pharmaceuticals, Inc. Patent Department--;

Column 90, Claim 14, line 1, please delete "oligonueleotide" and insert therefor --oligonucleotide--;

Column 90, Claim 25, line 39, please delete "2'-dcoxynucleotides" and insert therefor --2'-deoxynucleotides--.

Signed and Sealed this

Twenty-fourth Day of July, 2007

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office